

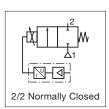
PRECIFLOW PROPORTIONAL VALVES

Thorne & Derrick

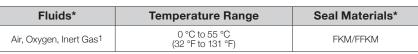
- Preciflow solenoid valves are designed to proportionally control the flow of air and inert gases by varying the electrical input signal to the coil
- Low hysteresis (<5%), excellent repeatability (<1%), and high sensitivity (<0.1%) make these valves ideal for high precision flow control
- Compact frictionless architecture saves valuable space in analytical and medical instrumentation
- · Valves do not require a minimum operating pressure, and are well-suited for vacuum operation
- · Power consumption as low as 1W to meet the most stringent instrument power requirements
- Meets all relevant CE directives, and are RoHS compliant
- Typical Applications Include:
 - Gas Chromatography
 - Mass Flow Controllers
 - Dental Equipment

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- Blood Pressure Monitoring





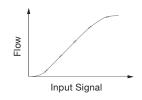


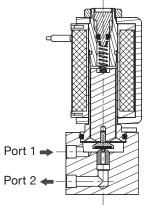
¹ Filtration: 5µm

^{*} Ensure that the compatibility of the fluids in contact with the materials is verified

Materials in Contact with Fluid*			
Body	Brass		
Seals	FKM/FFKM		
Others	Stainless Steel		

^{*} Other materials on request





Electrical Characteristics	
Coil Insulation Class	F
Connector	Lead Wires 24 AWG; L = 500mm
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP50
Standard Voltages	6 VDC, 12 VDC, 24 VDC
Voltage Regulation	0-6 VDC, 0-12 VDC, 0-24 VDC Pulse-width Modulation (>1000Hz)
Flow Regulation Characteristics	Hysteresis typ. 5%; Repeatability typ. 1%; Sensitivity typ. 0.1%

Voltage	Max.	Power Ratings				Ambient
	Operating Current	Inrush ~	Holding ~		Hot/Cold =	Temperature Ranges
٧	mA	VA	VA	W	W	°C (°F)
6	170				1	
б	420				2.5	
40	85				1	0 to 55
12	210	-	-	-	2.5	(32 to 131)
04	45				1	
24	110				2.5	

pecifications									
Orifice Size	Flow Coefficient		Pressure Differential bar (psi)		Power Coil (W)	Catalog Number			
mm (inches)	Kv (m3/h)	Cv	min.	max.	=	pad mount version			
0.045 (0.0018)	0.00006	0.00007	-0.9 (-13)	10 (145)	1	R202A540L0XXXXX			
0.07 (0.0023)	0.00012	0.00014	-0.9 (-13)	10 (145)	1	R202A541L0XXXXX			
0.1 (0.0040)	0.0003	0.00035	-0.9 (-13)	10 (145)	1	R202A542L0XXXXX			
0.2 (0.0079)	0.0012	0.00139	-0.9 (-13)	10 (145)	1	R202A543L0XXXXX			
0.4 (0.0157)	0.0048	0.0055	-0.9 (-13)	10 (145)	2.5	R202A544L0XXXXX			
0.6 (0.0236)	0.0096	0.0111	-0.9 (-13)	10 (145)	2.5	R202A545L0XXXXX			
0.8 (0.0315)	0.018	0.0208	-0.9 (-13)	10 (145)	2.5	R202A546L0XXXXX			

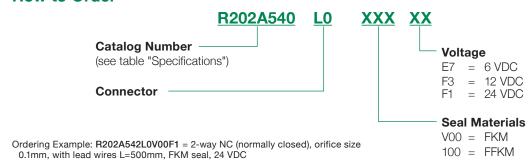
SERIES 202



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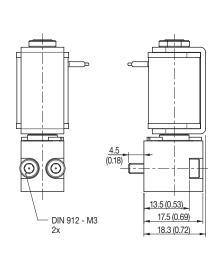


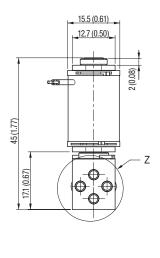
How to Order

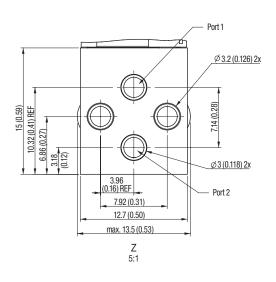


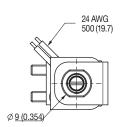
Dimensions: mm (inches)

Dimensional Drawing



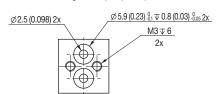




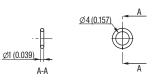


Mounting Pattern

Mounting Face (Proposal)



Sealing (optional)



Options

- Digital control module Control for DIN EN 50022 rail mounting
 - Used as a current regulator in open loop applications
 - Used with an external sensor for closed-loop applications
- · Other materials and voltages available on request
- Sealing FFKM: 514684-002, FKM: 514684-001 (minimum order quantity required)
- Sub-Base with M5 connections and O-ring seals available on request

Installation

• The solenoid valves can be mounted in any position without affecting operation

